



EFFICIENT MACHINE TECHNOLOGY

Machine Technology, Tools & Ancillaries

Composites



BÜFA®-Tec GSU ES1 EM
Product number 028-0182

The ideal gelcoat spraying unit for smaller to medium sized components approx. 1-3 m² (directly out of the container).

Facts

- Clearly arranged machine, easy to operate
- Proved century gun technology
 - Soft, low emission spray fan for best gelcoat air release
 - External mixing: excellent mixing of peroxide (the resin and peroxide are mixed outside)
 - No need to rinse after application

Technical data	
Output rate max., water [l/min]	1.6
Volume of flow per double stroke [ml]	27
Pressure ratio	33:1
Air pressure, entrance [bar]	6
Air consumption, approx. [l/min]	130-200
Length of hose [m]	7.5
Peroxide tank [l]	10
Weight [kg]	30
Dimensions approx. (L/W/H) [mm]	650 x 450 x 820

Machine Technology, Tools and Ancillaries

BÜFA Tec - Efficient Machine Technology
High performance system engineering from planning to "service on demand"

The BÜFA Tec team designs and produces state-of-the-art, robust and very operator-friendly machines and equipment. They range from hand metering pumps that have proved themselves thousands of times all the way to complex metering and mixing equipment for the most various types of applications. They also develop very individual solutions for specialised applications in close cooperation with customers. In this case approved modular system is used that allows the resin pump to be controlled pneumatically.

Individually coordinated metering pumps make work highly efficient. Your machines and equipment are coordinated to your requirements – with the entire know-how of the BÜFA Tec Development Department.

BÜFA Tec gelcoat units and fibre spray systems are equipped with extremely stable, generously dimensioned pump units to ensure quiet operation and uniform application. For us, service is another word for comprehensive support. Training on site when new machines and equipment have been added, quick supply of spare parts, a no hassle repair service and extensive advice – that's what the competence of our BÜFA Tec employees stands for – and has for many years all over the world.

Tell us your goals and we will create the prerequisites for profitable, reliable and future-oriented production.

BÜFA Tec – Efficient Machine Technology

- Gelcoat units
- Fibre spray units
- RTM units
- Bonding paste units
- Laminating roll units
- Metering devices
- Distillation units
- Stirring and mixing equipment
- Vacuum consumables
- Tools and Ancillaries
- Solutions for special systems engineering
- Service, maintenance, repair and project consulting
- Spare parts



Variants:
028-0184 BÜFA®-Tec ES1 EM Multicolor
028-0205 Extension pump unit ES 1

Gelcoat Units



BÜFA®-Tec GSU ES1 „Easy Lift“ Product number 028-0352

The ideal gelcoat spraying unit for smaller to medium sized components approx. 1-3 m² (directly out of the container).

Facts

- Clearly arranged machine
- Easy to operate with innovative lift technology
- Proved century gun technology
 - Soft, low emission spray fan for best gelcoat air release
 - External mixing: excellent mixing of peroxide (the resin and peroxide are mixed outside)
 - No need to rinse after application
- With carrier for peroxide container
- High mobility of unit

Technical data	
Output rate max., water [l/min]	1.6
Volume of flow per double stroke [ml]	27
Pressure ratio	32:1
Air pressure, entrance [bar]	6
Air consumption, approx. [l/min]	130-200
Length of hose [m]	10
Peroxide tank [l]	10
Weight [kg]	61
Dimensions approx. (L/W/H) [mm]	880 x 740 x 1550



Gelcoat Units



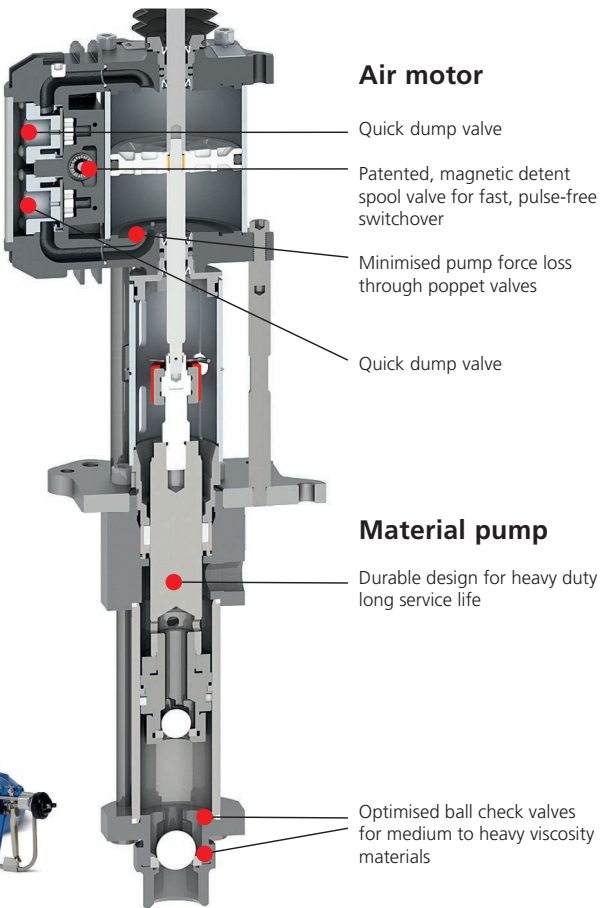
BÜFA®-Tec GSU Delta5.5 EM Product number 028-1701

Approved application technology for your production processes. Gelcoat application directly out of the container, for smaller to large sized components.

Facts

- Clearly arranged machine, easy to operate
- Innovative pump technology for resin and peroxide with outstanding mixing of the peroxide
- Reliable and durable pump unit with high output even in demanding production environments
- Clear reduction of costs since the resin is efficiently transferred to the surface of the mould (also with low air and liquid pressure)
- Century gun technology
 - Low emission and overspray
 - External mixing: excellent mixing of peroxide (the resin and peroxide are mixed outside)

Technical data	
Output rate at 30 cycles/min, water [l/min]	3.8
Volume of flow per double stroke [ml]	126
Pressure ratio	17:1
Air pressure, entrance [bar]	6
Air consumption, approx. [l/min]	200-500
Length of hose [m]	10
Weight [kg]	60
Dimensions approx. (L/W/H) [mm]	1100 x 550 x 1500



Air motor

- Quick dump valve
- Patented, magnetic detent spool valve for fast, pulse-free switchover
- Minimised pump force loss through poppet valves
- Quick dump valve

Material pump

- Durable design for heavy duty long service life
- Optimised ball check valves for medium to heavy viscosity materials

Accessories:

028-2600 Flow heater set 3 kW, ATEX

Innovative Delta pump technology

Systems engineered for a long and reliable service life, made from modular sub-assemblies for fast re-builds and easy maintenance.

Individual configuration of the machine is possible through the use of accessories, e.g. flow heater or peroxide flow sensors.

Gelcoat Units



BÜFA®-Tec Spray gun Polycon Product number 026-0300

Greatest possible flexibility through nine nozzle sizes and two container sizes, making it suitable for practically all types of gelcoats with the most different viscosities.

Facts

- Quick colour change
- Low cost
- Easy to use
- Easy to clean and maintain
- Fast, uniform coating

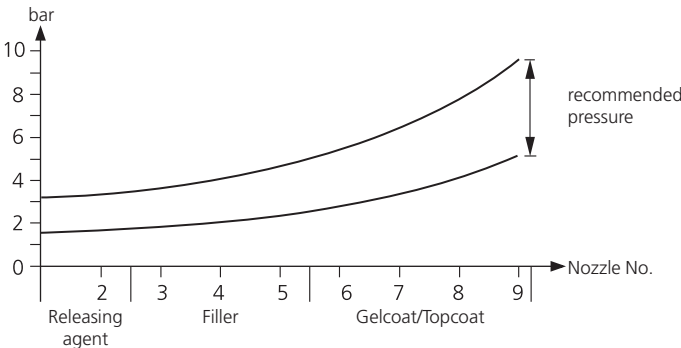
Accessories:

-  029-0705
-  029-1098
-  **Polycon nozzle set (9 nozzles)**
Product No. 026-0301

Nozzle (single)		
Diameter [mm]	Polycon nozzle	Art. No.
0.8	Nr. 1	026-0341
1.6	Nr. 2	026-0342
2.4	Nr. 3	026-0343
3.2	Nr. 4	026-0344
4.0	Nr. 5	026-0345
4.8	Nr. 6	026-0346
5.6	Nr. 7	026-0347
6.4	Nr. 8	026-0348
7.2	Nr. 9	026-0349
Container		
Container size [l]		Art. No.
1.0		026-0324
2.5		026-0326
Lid for container (l)		Art. No.
1.0		026-0327
2.5		026-0325
Bow		
Container size [l]		Art. No.
1.0		026-0310
2.5		026-0330

Technical data		
	Material	Aluminium
	Output rate max., water [l/min]	3.5
	Air pressure, entrance [bar]	3.5-7.0
	Air consumption, approx. [l/min]	400-800
	Weight [kg]	0.5
	Air connection	Single hand coupler NW 7 (filtered air)

Nozzle and pressure selection



Fibre Spray Units



BÜFA®-Tec FSU Delta5.5 EM Product number 028-1750

Effective fibre spraying unit for practically all components and resin systems.

Facts

- Easy to operate
- Innovative pump technology for resin and peroxide
- Proved century gun technology
 - Soft, low emission spray fan
 - External mixing: excellent mixing of peroxide (the resin and peroxide are mixed outside)
- High performance BINKS Cutter, also with internal mixing gun

Technical data	
Output rate at 30 cycles/min, water [l/min]	3.8
Volume of flow per double stroke [ml]	126
Pressure ratio	17:1
Air pressure, entrance [bar]	8
Air consumption, approx. [l/min]	400-900
Length of hose [m]	7.5
Weight [kg]	100
Dimensions approx. (L/W/H) [mm]	1000 x 800 x 2600
Boom from centre ca. [mm]	3600



Accessories:

- 028-2600 Flow heater Set 3 kW, ATEX
- 028-0956 Peroxide flow sensor, electronic



Information on the air motor and the material pump is found on page 117.
Innovative Delta Pump Technology same as 028-1701 GSU Delta.

RTM Units

BÜFA®-Tec Delta3.3 RTM Product number 028-4469

RTM unit on a Delta base, for small to large-sized components.

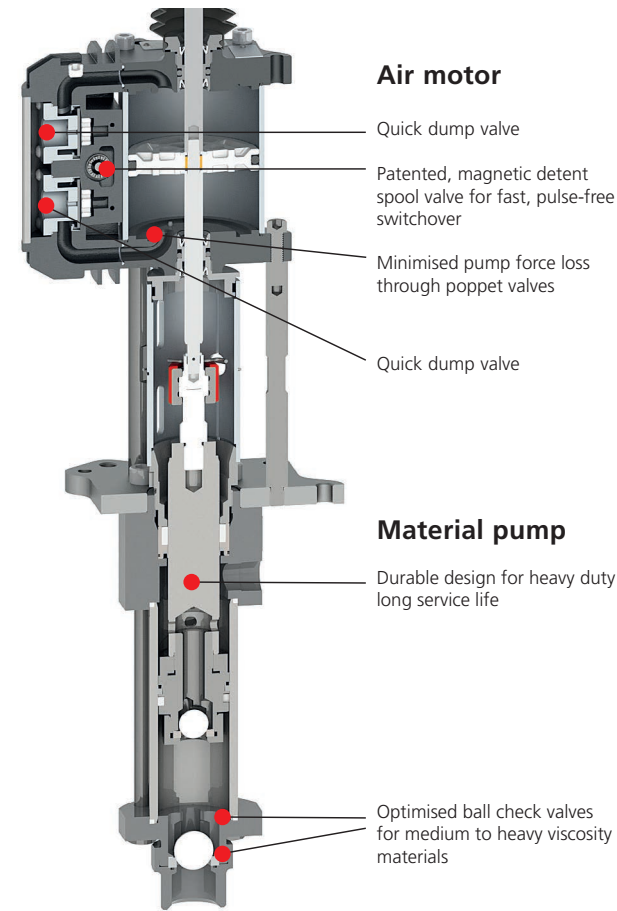
Facts

- Innovative pump technology for resin and peroxide
- Mechanically driven peroxide pump
- Internal mixing at the injection head.
- Recirculation of components
- Less solvent consumption



Accessories:
028-0971 BÜFA®-Tronic RTM-Pressure control, electronic
028-2600 Flowheater set 3 KW, ATEX

Technical data	
Output rate at 30 cycles/min, water [l/min]	3.8
Volume of flow per double stroke [ml]	126
Pressure ratio	6.5:1
Air pressure, entrance [bar]	6
Air consumption, approx. [l/min]	100-200
Length of hose [m]	7.5
Weight [kg]	75
Dimensions approx. (L/W/H) [mm]	1000 x 800 x 2200
Boom from centre ca. [mm]	1800



Bonding Paste Units

BÜFA®-Tec BPU Gamma4 Product number 028-1130

This unit was especially designed for processing bonding pastes from small containers (25 l hobbocks) and is especially suitable for the application of products without fibres or hollow spheres.

Facts

- Compact system
- 2-component mixing head with flushing function
- The bonding paste can be taken directly from the container
- Follower plate that reduces leftovers
- Peroxide pump with spindle mechanism and with infinitely variable adjustment of the peroxide content
- Less solvent consumption

Technical data	
Output rate at 30 cycles/min, water [l/min]	4.6
Volume of flow per double stroke [ml]	78
Pressure ratio	25:1
Air pressure, entrance [bar]	6
Air consumption, approx. [l/min]	250-400
Length of hose [m]	10
Flushing agent tank [l]	10
Weight [kg]	211
Dimensions approx. (L/W/H) [mm]	1000 x 860 x 1500



Bonding Paste Units



BÜFA®-Tec BPU Theta11
Product number 028-1102

The Theta11 Bonding Paste Unit offers all the advantages of this series for daily bonding of components. Ideal for large components where reproducible component qualities and efficient use of bonding paste is required.

Facts

- Large pump unit
- Guaranteed high output with smooth, wear resistant pump operation
- The bonding paste can be taken directly from the drum
- Follower plate that reduces leftovers
- Peroxide pump with spindle mechanism and infinitely variable adjustment of the peroxide content
- Less solvent consumption

Technical data	
Output rate at 20 cycles/min, water [l/min]	10.5
Volume of flow per double stroke [ml]	521
Pressure ratio	32:1
Air pressure, entrance [bar]	6
Air consumption, approx. [l/min]	800-1200
Length of hose [m]	15
Flushing agent tank [l]	19.5
Weight [kg]	350
Dimensions approx. (L/W/H) [mm]	1850 x 700 x 2600



Bonding Paste Units



Excellent results are achieved when working with the following BÜFA bonding pastes for high strength bonding as well as structural bonding:

Art. No.	Product name	Viscosity [mPa.s]	Colour	Gel time [min]	Curing time [min]	Peroxide indicator	Marine						Rail vehicles	Automotive			Other			
							Repair	Deck + hull	Interior walls	Sandwich constructions	Inliner + hull	Deck + inside roof lining	Levelling	Sandwich constructions	Structural bonding	Sandwich constructions	Structural bonding	Levelling	Mould constructions	Rotor blades
740-0110	BÜFA®-Bonding Paste 0110	1,800,000	opaque/natural	60 at 25 °C	85			✓	✓		✓	✓		✓		✓		✓	✓	✓
740-0114	BÜFA®-Bonding Paste 0114	1,800,000	opaque/natural	35	60			✓	✓		✓	✓		✓		✓		✓	✓	✓
740-0125	BÜFA®-Bonding Paste 0125	225,000	blue	23	50	✓			✓		✓					✓				
740-0250	BÜFA®-Bonding Paste 0250	1,000,000	blue	20	37				✓							✓				
740-0601	BÜFA®-Bonding Paste 0601	1,100,000	blue	25	50	✓			✓								✓			
740-0002	BÜFA®-Fine Body Filler Spray	23,000	grey	8	16		✓											✓		
740-0410	BÜFA®-Bonding Paste 0410	500,000	natural	24	42															✓

The recommendations presented above are a few of the possibilities for using bonding pastes. For more detailed information, please get in touch with our Technical Service Department. We'll be glad to help.
Abbreviations for base resins: VE – vinyl ester, OP – orthophthalic acid, IP – isophthalic acid, THP – tetrahydrophthalic acid, NPG – neopentyl glycol, BPA – bisphenol A
(✓)=Please get in touch with our Technical Service Department.



Laminating Roll Units

BÜFA®-Tec Laminating Roll Units

Robust, very reliable laminating roll units that can be used for medium and large-sized components.

UNI 125
Product number 028-1250

UNI 250
Product number 028-1275

Facts

- Robust and proven pump technology
- Self-adjusting resin pump gaskets
- Process reliability through built-in gel time control signal
- Optimised resin consumption - stroke counter for the prescribed resin flow rate
- Safety device against insufficient hardener
- Minimal solvent consumption - Pulse flushing

Technical data		
	UNI 125	UNI 250
Output rate at 30 cycles/min, water [l/min]	3	6
Pressure ratio	17:1	9:1
Air pressure, entrance [bar]	6	6
Air consumption, approx. [l/min]	200-700	200-700
Percentage of peroxide [%]	1-5	1-2.5
Warning device: a) flexible time signal b) preselected counter	up to 99999 min. up to 99999 (double stroke lift)	up to 99999 min. up to 99999 (double stroke lift)
Flushing agent tank [l]	19.5	19.5
Flushing agent consumption (l / flushing operation)	< 1	< 1
Weight [kg]	90	90
Dimensions approx. (L/W/H) [mm]	1000 x 740 x 1780	1000 x 740 x 1780

With the corresponding tools, the UNI 125/250 can be used as an injection, gelcoat or impregnation facility – even as a fibre spray and fan jet facility if necessary.

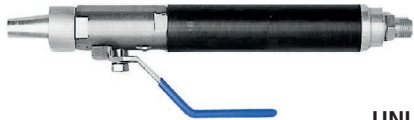
Laminating roll with extension pipe:

- 18 x 100 cm
Art. No. 028-0092
- 18 x 140 cm
with pneumatic remote control
Art. No. 028-0094
- 12 x 45 cm
Art. No. 028-0039
- 18 x 25 cm
Art. No. 028-0193



Illustration similar

UNI Gelcoat spraying unit
with gun Airless
Art. No. 029-5387



UNI Injection unit
with injection head
Art. No. 028-0031

Metering Devices

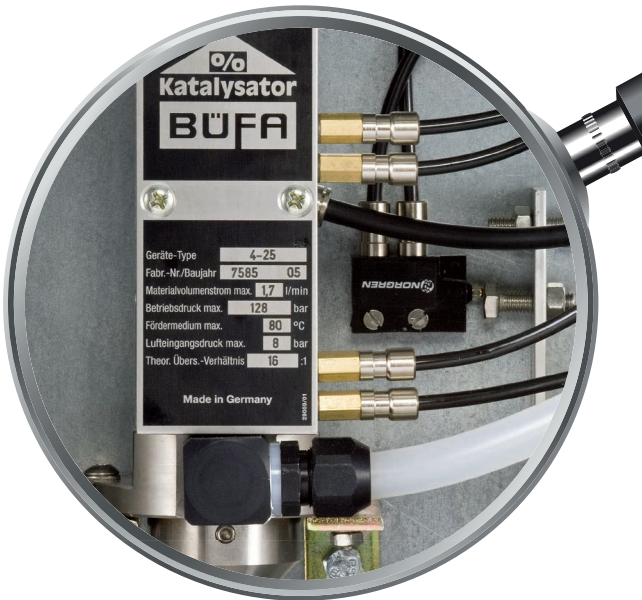
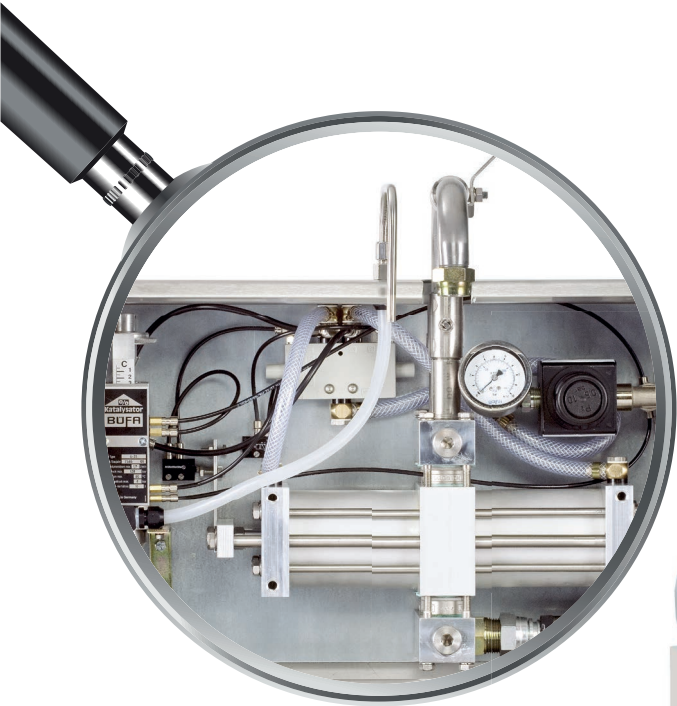
BÜFA®-Tec Polybar Product number 028-1000 Product number 028-1001 (with stroke counter)

Established 2 component metering for quick, easy and reproducible metering results without scale.
The resin is conveyed by a double action, wear-free Teflon bellows pump (DBGM).

Facts

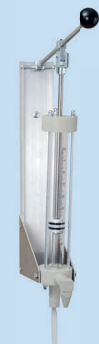
- No leakage of resin through worn out seals
- Infinitely variable pumping capacity
- Exact and repetitious dosing of resin and accelerator, the resin and hardener pumps are automatically pneumatically coupled
- Hardener is metered by adjustable hardener pump lift
- No loss of material
- No weighing and re-filling
- Increased safety and cleanliness at the workplace
- Robust design

Technical data	
Output rate at 30 cycles/min, water [l/min]	3
Volume of flow per double stroke [ml]	100
Pressure ratio	1:1
Adjustment range peroxide [%]	1.0-5.0
Air pressure, entrance [bar]	6
Air consumption, approx. [l/min]	100-300
Weight [kg]	30
Dimensions approx. (L/W/H) [mm]	720 x 390 x 580



Hand Metering Pumps



Product name	BÜFA®-Tec HDP 30 ml PVDF	BÜFA®-Tec HDP 100 ml PVDF	BÜFA®-Tec HDP 100 ml NV-PP	BÜFA®-Tec HDP 100 ml HV-PP	BÜFA®-Tec HDP 250 ml HV-Al	BÜFA®-Tec HDP 500 ml PP
Art. No.	026-3000	026-0900	026-0600	026-0800	026-0250	026-0500
Piston stroke	30 ml	100 ml	100 ml	100 ml	250 ml	500 ml
Scale graduation	0.5 ml	1 ml	1 ml	1 ml	5 ml	10 ml
Viscosities	For low viscosity liquids, resistant to practically all mediums. Developed for metering organic peroxides.	For low viscosity liquids, resistant to practically all mediums. Developed for metering organic peroxides.	For low viscosity liquids. Developed for metering organic peroxides. Only conditionally solvent resistant.	As Art. No. 026-0600 but with a larger intake and release valves for the conveyance of liquids with higher viscosities up to 2500 mPas.	Suitable for liquids with a higher viscosity of up to approx. 2500 mPas.	Suitable for liquids with a viscosity of up to approx. 2500 mPas, e.g. resins, varnishes, under certain conditons acids.
Valves	With O-ring seal	With ball seal	With ball seal	With ball seal	With ball seal	With ball seal
Materials	PVDF, PTFE, FFKM, stainless steel, glass	PVDF, PTFE, stainless steel, glass	PP, PVDF, stainless steel, glass	PP, PVDF, stainless steel, glass	Anodized aluminium, PTFE, stainless steel, glass	Anodized aluminium, PP, PTFE, stainless steel, glass
Product illustration						
UP resin				✓	✓	✓
EP resin				✓	✓	✓
Gelcoats				✓	✓	✓
Pigment pastes				✓	✓	
Peroxides	✓	✓	✓			
Inhibitors	✓	✓			✓	
Accelerators	✓	✓			✓	
Acetone	✓	✓			✓	
Styrene	✓	✓			✓	

Hand Metering Pumps

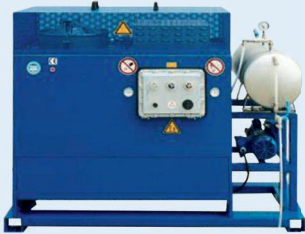


Product name	BÜFA®-Tec HDP 500 ml Al	BÜFA®-Tec HDP 1000 ml PP	BÜFA®-Tec HDP 1000 ml Al	BÜFA®-Tec HDP 2-Component Hand Metering Pump	BÜFA®-Tec HDP 2-Component Hand Metering Pump	BÜFA®-Tec HDP 2-Component Hand Metering Pump
Art. No.	026-0550	026-1000	026-1100	026-4711	026-4730	026-4740
Piston stroke	500 ml	1000 ml	1000 ml	100 ml and 10-30 ml adjustable for peroxide	500 ml and 80-160 ml adjustable for the hardener	500 ml and 5-15 ml adjustable for the peroxide
Scale graduation	10 ml	10 ml	10 ml	10 ml	10 ml	10 ml
Viscosities	Corresponds to the 250 ml aluminium pump but with larger volumetric delivery.	Suitable for liquids with a viscosity of up to approx. 2500 mPas, e. g. resins, varnishes, etc..The stroke is executed by a rack and gear drive.	Suitable for liquids with a viscosity of up to approx. 2500 mPas, e. g. resins, varnishes, etc..The stroke is executed by a rack and gear drive.	For UP resins up to approx. 2500 mPas. This pump consists of two coupled piston pumps.	For EP resins up to approx. 2500 mPas. This pump consists of two coupled piston pumps.	For UP resins up to approx. 2500 mPas. This pump consists of two coupled piston pumps.
Valves	With ball seal	With ball seal	With ball seal	Peroxide pump with O-ring seal. Resin pump with ball seal.	Hardener pump with O-ring seal. Resin pump with ball seal.	Peroxide pump with O-ring seal. Resin pump with ball seal.
Materials	Anodized aluminium, PTFE, stainless steel, glass	Anodized aluminium, PP, PTFE, stainless steel, glass	Anodized aluminium, PTFE, stainless steel, glass	Peroxide pump: glass, stainless steel, PVDF, PTFE, FFKM Resin pump: glass, anodized aluminium, PTFE, stainless steel	Hardener pump: glass, stainless steel, PVDF, PTFE, FFKM Resin pump: glass, anodized aluminium, PTFE, stainless steel	Peroxide pump: glass, stainless steel, PVDF, PTFE, FFKM Resin pump: glass, anodized aluminium, PTFE, stainless steel
Product illustration						
UP resin	✓	✓	✓	✓		✓
EP resin	✓	✓	✓		✓	
Gelcoats	✓	✓	✓			
Pigment pastes						
Peroxides				✓		✓
Inhibitors	✓		✓			
Accelerators	✓		✓			
Acetone	✓		✓			
Styrene	✓		✓			

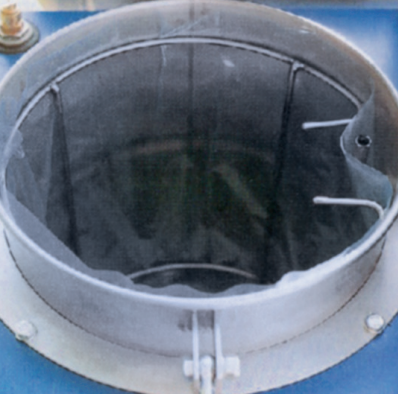
Distillation Units



Product name	ISIDest® Distillation Unit LD 20 EX-E	ISIDest® Distillation Unit LD 30 EX-E
		
Art. No.	029-1615	029-2630
Tank filling quantity [l]	15-20	25-30
Electric output	1.33 KW / 230 V	1.66 KW / 230 V
Recovery / hour [l]	ca. 5.0	ca. 7.0
Working temperature [°C]	max. 200	max. 200
Boiling range [°C]	50-160	50-160
Dimensions (L/W/H) [mm]	940 x 505 x 1210	940 x 505 x 1210
Weight [kg]	70	85
Identification	Ex II 3 G IIB T2	Ex II 3 G IIB T2
Comment	Ideal unit for operations with up to 300 litres of solvent a month, including 50 high temperature resistant plastic bags	Ideal unit for operations with up to 500 litres of solvent a month, including 50 high temperature resistant plastic bags
Accessories	Art. No. 029-1716 Plastic bag LD 20	Art. No. 029-2730 Plastic bags LD 30

Product name	ISIDest® Distillation Unit LD 60 EX-E	ISIDest® Distillation Unit LD 120 EX-E
		
Art. No.	029-1660	029-2953
Tank filling quantity [l]	50-60	100-120
Electric output	4.00 KW / 400 V / 3 ph	6.00 KW / 400 V / 3 ph
Recovery / hour [l]	max. 17.0	max. 21.0
Working temperature [°C]	max. 200	max. 200
Boiling range [°C]	50-160	50-160
Dimensions (L/W/H) [mm]	1170 x 700 x 1240	1630 x 680 x 1380
Weight [kg]	120	180
Identification	Ex II 3 G IIB T2	Ex II 3 G IIB T2
Comment	Ideal unit for operations with up to 1000 litres of solvent a month, including 50 high temperature resistant plastic bags	Ideal unit for operations with up to 2000 litres of solvent a month, including 50 high temperature resistant plastic bags
Accessories	Art. No. 029-2740 Plastic bags LD 60	Art. No. 029-2399 Plastic bags LD 120

Operation of the Distillation Units



- Function:**
- The stainless steel container is lined with a plastic bag.
 - The soiled solvent is filled into the plastic bag.
 - The lid on the stainless steel container is closed.
 - The recovery cycle is started.
 - The cleaned solvent is collected in a container.
 - After the cycle has been concluded, the lid of the stainless steel container is opened.
 - The plastic bag along with the residue inside are taken out of the stainless steel container and brought to an appropriate recycling facility in accordance with the valid notes on disposal for the product.
 - The stainless steel container remains clean.
 - The distillation unit is ready for the next recovery cycle.

Operation:
It's so easy. Just start the recovery cycle – everything else runs automatically.

Safety „Made in Germany“
Internal safety thermostats control the temperature and the recovery cycle – and not just once but twice.

Short-term amortization:
A low purchase price and low operating costs guarantee an amortisation period of 12 months when utilised to full capacity.

Exemplary guarantee:
A 12 month warranty on the distillation unit.

Not covered: Wearing parts and materials used.

- Features:**
- Components that come in contact with product are made of stainless steel
 - Stainless steel condenser, indirectly heated with thermal oil
 - Condenser air-cooled
 - PTFE lid seal
 - Including 50 plastic bags
 -  Ex II 3 G IIB T2



No steam pipe in the boiling tank



PTFE lid seal



Air cooled, stainless steel condenser



Integrated vapour temperature display



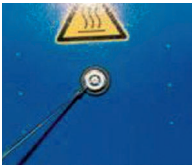
Safety valve in the container lid



Stable lid clamping bracket



Connection hose for filling drums



Clear oil level control



Welded plastic bag with clip for extreme loads and all solvents



Exchangeable boiling tank

Formula A	Amortisation calculation for distillation units
$A = \frac{K}{B \times (0.8 \times C - 0.05 + E)}$	Units
	A = Amortisation period (months)
	K = Purchase price (Euro)
	B = Disposal quantity per month (litre) according to disposal receipts
	C = Disposal costs per litre (Euro) according to disposal invoices
	E = Price of fresh solvent (Euro) per litre
	*** A leftover disposal of 20 % after distillation and energy costs of 5 cents per litre were taken into account in the formula.

Stirring and Mixing Equipment

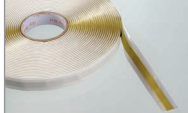


Stirring unit for IBC containers	Stirring unit for IBC containers	Stirring unit for IBC containers	Stirring unit for open containers	Stirring unit for IBC containers	Stirring unit for IBC containers „Disc“
Art. No. 028-0145	Art. No. 028-0144	Art. No. 028-0147	Art. No. 028-0143	Art. No. 028-0173	Art. No. 029-5431
- Hand-held unit with a stable grip - Fast mixing without stirring in air - (Not illustrated) with long stirring shaft - With low inclusion of air	- Hand-held unit with foldable impellers for stirring in closed drums	- Screw fastening for mounting on bunghole 2" - Foldable impellers as for 028-0144	- With clamping device for open containers - For circulating and stirring filled and unfilled resin systems	- For circulating and stirring filled and unfilled laminating resins - Incl. container screw cap lid	- The stirring process takes place without harmful entrainment of air and without undesired foam formation. - Because of the large mixing circle diameter and resulting low speed, the product is gently stirred - Container mixing tools are also available in an explosion-proof version
					



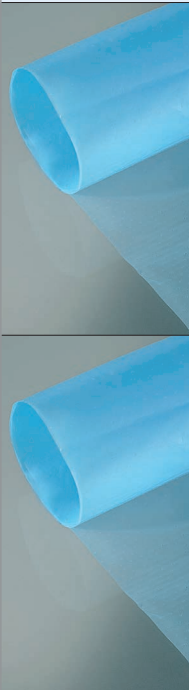
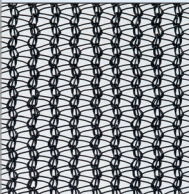
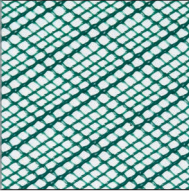
Vacuum Consumables



	Art. No.	Product name	Sales Arguments	Size	Unit
Vacuum bagging film					
	930-0905	PRO-VAC 100-LB-75	• A tough, high temperature resistant, co-extruded, nylon based material that was designed for use in the production of advanced composite structures such as wind turbine blades and nacelles for wind energy plants, boat hulls and decks as well as other industrial structures. • The film is suitable for use in both resin infusion and prepreg moulding processes and is resistant to all commonly used resin systems. • Not suitable for use in autoclave processes. • The normal thickness is 75 µ; other thicknesses available on request. • Maximum temperature 177 °C	Available in widths 3, 4, 6, 8 and 10.5 m.	Roll
	930-0904	PRO-VAC 150-LG-75	• A tough, puncture resistant, co-extruded film made of polyolefin and nylon based resins that can be used for the production of polyester / vinyl ester resin infused components in the wind energy, marine and general composite industries. • Not recommended for use with epoxy resin systems. • Less sensitive in low humidity which is often problematical for predominantly nylon based films since a lack of moisture can reduce flexibility. This ensures consistent quality throughout the entire year in all working environments. • Maximum temperature 120 °C • Layer thickness 75 µ. For larger, more complex mouldings such as boat decks, we recommend the use of our 80 µ thick product since it is more resistant to stress during production and has higher tear strength.	Available in widths 4, 6, 8 and 10 m.	Roll
	930-0902	PRO-VAC 150-LG-80	• Modified structure compared to our standard product PRO-VAC 150. Designed for the production of very large, complicated components such as boat decks where the film is subjected to significant stress. • Not recommended for use with epoxy resin systems. • Less sensitive in low humidity which is often problematical with predominantly nylon based films since a lack of moisture can reduce flexibility. This ensures consistent quality throughout the entire year in all working environments. • Layer thickness 80 µ • Maximum temperature 120 °C	Available in widths 12 and 16 m	Roll
	930-0906	PRO-VAC 250-G-75GL	• This film was designed for the production of laminated safety glass. • The tough but flexible nylon film is ideal for applications in oven and autoclave processes for glass structures in conjunction with EVA or PVB interlayers. • Standard thickness is 75 µ; other thickness available, depending on requirements. • Maximum temperature 170 °C	Available in widths 1.2 and 1.5 m.	Roll
	930-0907	PRO-VAC 200-O-50	• Highly flexible multi-layer nylon vacuum bagging film designed for use in the production of advanced composite structures and laminated safety glass. • The film is ideal for applications in oven and autoclave processes up to the maximum recommended temperature of 170 °C. • The decisive advantages of this film are its high elongation and high flexibility. • Layer thickness 50 µ	Available in widths 1.5 and 2.2 m.	Roll
	930-0908	PRO-VAC 200-G-75	• Highly flexible multi-layer nylon vacuum bagging film designed for use in the production of advanced composite structures and laminated safety glass. • This film is ideal for applications in oven and autoclave processes up to the maximum recommended temperature of 170 °C. • The decisive advantages of this film are its high elongation and high flexibility. • Layer thickness 70 µ	Available in widths 1.5 and 2.2 m.	Roll
Sealing tape					
	930-0750	BÜFA®-Tec Sealant Tape	A high quality sealant tape made of a mixture of butyl rubber. The dimensions and formulation of the product have been optimised to improve performance and facilitate use. The sealant tape is used in film processes in the composite industry.	3 mm x 15 mm x 15 m	Roll
Adhesive tape					
	930-0780	BÜFA®-Tec Tacky Glass Tape 27 mm	BÜFA®-Tec Tacky Glass Tape 27 mm is a 27 mm wide, glass fibre adhesive tape. It was designed for temporary fixation of reinforcement materials and can be used in the composite industry, particularly for RTM and infusion processes.	27 mm x 100 m	Roll

Vacuum Consumables



	Art. No.	Product name	Sales Arguments	Size	Unit
Perforated film/Release film					
	930-0915	PRO-VAC 500-B-28 Release film	- For applications in infusion processes for the production of advanced composite structures. - Suitable for a wide range of epoxy, polyester and vinyl ester resin systems. However, we recommend preliminary testing before producing large moulded parts in an infusion process. - The film is available in a sky blue colour with perforation P31 (approx. 6 holes per cm²) for vacuum infusion and perforation P3 for liquid applications and preregs. - The perforations are hot needled to ensure uniform impregnation of the entire laminate with resin. - Other colours, thicknesses and perforation patterns are possible. - Layer thickness 28 µ - Maximum temperature 125 °C	1.5 x 500 m	Roll
	930-0916	PRO-VAC 550-Y-50 Release film	- Designed for applications in infusion processes used for the production of advanced composite structures. - Suitable for a wide range of epoxy, polyester and vinyl ester resin systems. However, we recommend preliminary trials before producing large moulded parts in an infusion process. - The film is available in a sky blue colour with perforation P31 (approx. 6 holes per cm²) for vacuum infusion and perforation P3 for liquid applications and preregs. - The perforations are hot needled to ensure uniform impregnation of the entire laminate with resin. - Other colours, thicknesses and perforation patterns are possible. - Layer thickness 50 µ - Maximum temperature 153 °C	1.5 x 250 m	Roll
Spray Adhesive					
	022-0090	BÜFA®-Tec Spray Adhesive 008	BÜFA®-Tec Spray Adhesive 008 was designed especially for work with composite materials. The spray adhesive is used for bonding fabrics such as glass and carbon, core materials such as PVC and balsa and fixing tubes, spirals or flow media. Because of its composition, BÜFA®-Tec Spray Adhesive 008 is especially compatible with UPE, VE and epoxy resin systems.	650 ml, 1 piece	Spray adhesive
Peel Ply					
	930-0901	PRO-VAC N85 Nylon peel ply	- Heat set to 85 g/m² and washed 6.6 nylon peel ply. - Designed for hand lay-up and vacuum infusion processes. - Has a red tracer as visible indicator to reduce the risk of leaving the peel ply on the laminate. - The fabric produces a surface that makes sanding the laminate easier. - We do not recommend using this product together with phenolic resins.	1.52 x 100 m	Roll
	930-0909	PRO-VAC P85 Polyester peel ply	- Designed for hand lay-up and vacuum infusion processes. - Has an orange tracer as visible indicator to reduce the risk of leaving the peel ply on the laminate. - The fabric produces a surface that makes sanding the laminate easier. - This product can be used together with phenolic resins as well as all other standard resin systems, however, we recommend preliminary testing to assess compatibility.	1.52 x 100 m	Roll
Resin flow medium					
	930-0652	PRO-VAC KM160E1 Resin flow medium	3D knitted infusion mesh. - Compatible with all standard epoxy, polyester and vinyl ester resin systems. - Easy to drape – can be used for complex moulds. - Can also be used as a reusable breather mat for compressing at room temperature. - Density 160 g/m² - Available up to 2 m wide.	100 m	Roll
	930-0653	PRO-VAC BM230P Resin flow medium	- Extruded infusion mesh. - Due to of the stiffness of the material it is only recommended for plane panels and simply curved moulds. - Compatible with all standard epoxy, polyester and vinyl ester resin systems. - Density 230 g/m² - A faster flowing mesh compared to knitted mesh.	50 m	Roll

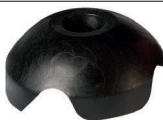
Vacuum Consumables



	Art. No.	Product name	Sales Arguments				Size	Unit
Breather fabric								
	930-0676	PRO-VAC B-150 Breather fabric	• Moderately heavy PET breather/extraction mat. • Easy to drape – well suited for simply curved and complex components. • Highly suitable for all low pressure production processes; can also be used in several layers to increase ease of flow. • Density 150 g/m². • Layer thickness at 2 kPa is 1.8 mm. • Maximum temperature 170 °C				1.52 x 95 m	Roll
Connector								
			Material		Max. temperature			
	930-0960	PRO-VAC T-Connector PVT-10	PE		100 °C	10 mm		Piece
	930-0961	PRO-VAC T-Connector PVT-12	PE		100 °C	12 mm		Piece
	930-0962	PRO-VAC T-Connector PVT-18	PE		100 °C	18 mm		Piece
Spiral hose								
			Material		Max. temperature			
	930-0931	PRO-VAC Spiral hose PVS-10	PE		100 °C	10 mm x 100 m		Roll
	930-0930	PRO-VAC Spiral hose PVS-12	PE		100 °C	12 mm x 100 m		Roll
	930-0932	PRO-VAC Spiral hose PVS-18	PE		100 °C	18 mm x 100 m		Roll
Hose								
			Material	Di (+/-) / thickness (+/-) [mm]	Max. temperature	Length (m)		
	930-0933	PRO-VAC Infusion hose PVI-10	PE	10 (+/- 0.5) / 1.0 (+/- 0.1)	100 °C	100	10 mm x 100 m	Roll
	930-0934	PRO-VAC Infusion hose PVI-12	PE	12 (+/- 0.5) / 1.0 (+/- 0.1)	100 °C	100	12 mm x 100 m	Roll
	930-0936	PRO-VAC Reinforced hose PV-RHOSE-13	PVC fibre reinforced	13/5.0	60 °C	100	13 mm x 100 m	Roll
	930-0937	PRO-VAC Reinforced hose PV-RHOSE-19	PVC fibre reinforced	19/5.0	60 °C	50	19 mm x 50m	Roll
	930-0938	PRO-VAC Reinforced hose PV-RHOSE-18	PVC spiral reinforced	18/2.5	60 °C	50	18 mm x 50m	Roll

Vacuum Consumables



	Art. No.	Product name	Sales Arguments				Size	Unit
Accessories								
			Material	Di (+/-) / height [mm]	Max. temperature			
	930-0970	PRO-VAC Inlet Block PVINB-16	PP	16 (+/- 0.5) / 35	100 °C		16 mm	Piece
			Material	Da (mm)	Max. temperature			
	930-0971	PRO-VAC L-Connector for Inlet Block PVL-12	PE	12	100 °C		12 mm	Piece
	930-0972	PRO-VAC L-Connector for Inlet Block PVL-18	PE	18	100 °C		18 mm	Piece
			Material	Di (mm)	Max. temperature	Length (m)		
	930-0973	PRO-VAC Omega channel PVO-16	PVC	16	60 °C	4	16 mm	Piece
			Material	Da (mm)	Max. temperature			
	930-0980	PRO-VAC Infusion valves PVV-10 double O-ring	PE	10	100 °C		12 mm	Piece
	930-0981	PRO-VAC Infusion valves PVV-12 double O-ring	PE	12	100 °C		12 mm	Piece
	930-0982	PRO-VAC Infusion valves PVV-18 double O-ring	PE	18	100 °C		18 mm	Piece



Tools and Ancillaries



Filling out of the drum	
Art. No.	Products
026-8310	Drum plug wrench
026-8302	Drum tap 2"

Metering of resins and pigment pastes with stable measuring cups in BUFA quality made of polyethylene	
Art. No.	Products
026-2705	Measuring cup 500 ml
026-2710	Measuring cup 1000 ml
026-2720	Measuring cup 2000 ml

Venting with PTFE rollers for continuous use - durable and easy to clean	
Art. No.	Size
026-5482	8 x 80 mm
026-5442	8 x 40 mm
026-5980	Corner roller 50 x 8 mm
026-5612	14 x 100 mm

Metering of hardeners and accelerators	
Art. No.	Products
026-2810	PE measuring cylinder 100 cm
026-2805	PE measuring cylinder 50 cm
026-2909	Hardener metering attachment „Max“
026-2908	2000 ml bottle for hardener metering device

Venting with metal disc rollers	
Art. No.	Products
026-5102	Flex Roller (adapts to contours)
026-5011	Metal disc roller 12 x 80 mm
026-5005	Metal disc roller 12 x 40 mm
026-5101	Metal Corner roller 45 x 10 mm



Venting with polypropylene rollers - the cost-effective alternative	
Art. No.	Size
026-5335	28 x 180 mm
026-5481	10 x 80 mm
026-5441	10 x 40 mm
026-5981	Corner roller 40 x 8 mm
026-5611	14 x 100 mm
026-5681	14 x 80 mm
026-5641	14 x 40 mm

Impregnating	
Art. No.	Products
026-6710	Nylon roller on one side
026-6811	Handle on one side
026-7246	Nylon roller 18 cm
026-7204	Handle 18 cm
026-0730	Modler 3" 7.5 cm
026-0720	Modler 2" 2 cm

Industrial safety and hygiene	
Art. No.	Products
026-8932	Fine dust safety mask 8710E
026-8933	Respiratory protection face mask 4251 for protection against solvent vapours (Boiling point > 65 °C)
026-8991	Clear plastic glasses
026-8401	Lined cotton gloves Size 9-10

Large selection but limited space!

Our tool and auxiliary equipment programme has a lot more to offer than we could possible show on this page. So just ask us! We have the solution!

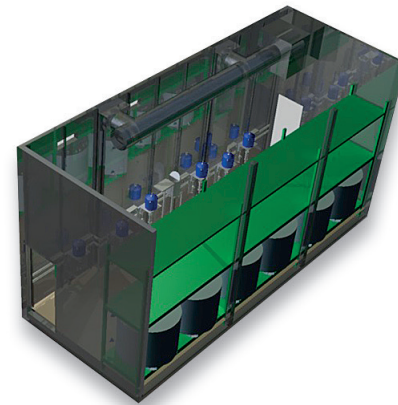


Do you need a system that is especially produced for you and takes your needs into account?

Then BÜFA Tec machine technology is exactly right for you!

Our engineers and technicians design, deliver and install solutions that are tailor-made for your requirements.

- Special systems
- Tanks, containers
- Material supply
- Stirring and dispersing technology
- Filling level and flow monitoring systems for reproducible and optimised processes
- Process data visualisation as well as long-term recording
- Integral application systems



Examples:



Plant construction and installation



Resin tank and mixer



Peroxide tank with level control



Every production process has different requirements and therefore also different service needs.

Type and age of the system, spraying or laminating output as well as the number of trained employees are just a few examples that influence the scope of services.

You can rely on receiving support that is perfectly tailored to your needs by our BÜFA Tec team!

You can choose yourself!

You decide on the scope of services that will cover your present needs and together we will determine the costs that will arise for service:

- Support of the system during the entire utilisation period.
- Inspection and maintenance of the system by our service technician (depending on operating hours once or twice a year).
- Replacement of parts subject to wear (e.g. pump packings and seals) followed by a functionality check.
- Optimisation of machine settings to reduce emissions and overspray.
- Professional project consulting by our engineers and technicians.
- Training of your employees, focusing on machine handling, maintenance and repair.

Give us a call! We'd be glad to help you: Phone +49 4402 975-0



Phone +49 4402 975-0

A hand is holding a blue plastic storage bin. Inside the bin is a mechanical assembly consisting of a blue valve body, a silver-colored metal housing, and a black circular component. The background shows a multi-tiered shelving system with similar blue bins. Some bins are labeled with white tags, including '03', '029-0092', '029-0094', and '029-0096 VERBINDUNGSSTUECK'. On the top shelf, there are several large, circular, silver-colored metal flanges with threaded ports.

For your notes: